

Appl. No. : 10/087,549
Filed : February 28, 2002

AMENDMENTS TO THE ABSTRACT

Please replace the Abstract of the Disclosure with the following rewritten paragraph.

-- ~~Methods Disclosed herein are methods for decreasing non-specific bindings binding of beads in a dual bead assays assay, and related optical bio-discs and disc drive systems. The methods are employed to determine the suitability of a test solid phase for use in a dual bead assay. The Some of the disclosed methods include identifying whether a target agent is present in a biological sample and involve by mixing capture beads, each having at least one transport probe affixed thereto, with reporter Reporter beads, each have having at least one signal probe affixed thereto, such that the The reporter and capture beads are each bound to the target agent if the target agent is present in the sample. The methods further include isolating the dual bead complex from the mixture to obtain an isolate, and exposing the isolate to a capture field on a disc. Detecting the presence of the dual bead complex in the disc is then performed to determine whether the target agent is present in the sample. The method further includes pre-treating Some of the disclosed methods further include treating capture beads and reporter beads used in such dual bead assays with detergents and/or blocking agents. prior to capture, treating capture beads and reporter beads with blocking agents prior to target capture, and performing the mixing in an intermittent manner. The beads are preferably mixed only when they start to settle down in the tube or on the disc. The methods also provide for evaluation of non-specific binding of the dual bead assay in the presence of salt concentrations ranging from 0.1M up to 1M and use of a new wash buffer having 10 mM EDTA.~~